

Mouse Anti-Canine Phosphoenolpyruvate Carboxykinase (PEPCK) Monoclonal Antibody

Cat. No.: VD8N114

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL

Product Overview

BioVenic mouse monoclonal antibody is specific for canine phosphoenolpyruvate carboxykinase. It can be applied to WB assay of canine phosphoenolpyruvate carboxykinase.

Specifications

Application	WB
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G3N78
Host	Mouse
Target Species	Canine
Species Reactivity	Canine
Specificity	Canine Phosphoenolpyruvate Carboxykinase
Isotype	IgG
Immunogen	Purified recombinant canine phosphoenolpyruvate carboxykinase (C-terminus) prote in fragments
Concentration	1 mg/mL
Conjugation	Unconjugated
Physical State	Liquid

Target Information

Phosphoenolpyruvate carboxykinase (PEPCK) is an enzyme that plays a pivotal role in gluconeogenesis, the metabolic pathway responsible for generating glucose from non-carbohydrate precursors. PEPCK catalyzes the conversion of oxaloacetate to phosphoenolpyruvate, a key regulatory step in this process. This enzyme is predominantly expressed in the liver and, to a lesser extent, in the kidneys. The expression of PEPCK is tightly regulated by various factors, including insulin, glucagon, and cortisol, which respond to the body's energy needs and glucose levels.

Target	Canine Phosphoenolpyruvate Carboxykinase
Target Synonym	PCK2; PEPCK2
Gene ID	403560
UniProt ID	Q8MIM4

Shipping and Storage

This product is shipped with ice gel packs. Store at -20°C (up to 12 months) on receipt. Avoid repeated freezing and thawing as this may denature the antibody.

Reference

Yang, Jianqi, *et al.* "What is the metabolic role of phosphoenolpyruvate carboxykinase?." *Journal of Biological Chemistry* 284.40 (2009): 27025-27029.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.